

What IS Claimed IS
~~CLAIMS~~

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1. A procedure for manufacturing crystallizable plastic material, such as polyesters, e.g., PET, by melting on amorphous plastic material, which is subsequently granulated, crystallized and recondensed, wherein the plastic material need not be heated before crystallization, characterized in that the plastic material is subjected to a sieving process after crystallization, and that crystallization takes place at a temperature of 140 °C to 180 °C.
2. A device for manufacturing crystallizable plastic material, such as polyester, e.g., PET, for executing a procedure according to claim 1, comprising a granulating device, a fluidized bed (4) and a shaft reactor (7), characterized in that a sieve (5) is placed downstream from the fluidized bed (4).
3. A procedure for manufacturing crystallizable plastic material, such as polyester, e.g., PET, by melting amorphous plastic material, which is subsequently crystallized, granulated and recondensed, wherein the plastic material need not be heated again before crystallization, characterized by the fact that, after granulation, the plastic material is subjected to a sieving process at about the same temperature as during crystallization and granulation.
4. The procedure according to claim 3, characterized in that the temperature during crystallization, granulation and sieving measures 100 °C to 200 °C, preferably 120 °C to 160 °C.

5. The procedure according to one of claims 3 or 4, characterized in that the retention time during crystallization measures approx. 1 to 40 seconds, preferably 2 to 20 seconds.
6. The procedure according to claim 5, characterized in that the sieving process is followed by further crystallization.
7. A device for manufacturing crystallizable plastic material, such as polyester, e.g., PET, for executing a procedure according to claim 3, with a crystallizer followed by a cutter (2), characterized in that a sieve (5) is placed downstream from the cutter (2).
8. The device according to claim 7, characterized in that another crystallizer is placed downstream from the sieve (5).